

AS Series

- ▶ MOPD: 10 Bar (150 PSI)
- ▶ K_v Range: 0.017 to 0.256 (C_v Range: 0.020 to 0.300)
- ▶ 7 Watts

The AS Series is a 2-way isolation valve, designed to control the flow of various aggressive liquids and gases with several body and diaphragm materials. With a modular design, the AS offers performance flexibility and the protection your media needs from the solenoid's internal components. Numerous port configurations, voltage options, and coil constructions enable the AS Series to be a truly versatile miniature inert isolation valve, easily integrated into any complex or demanding system.

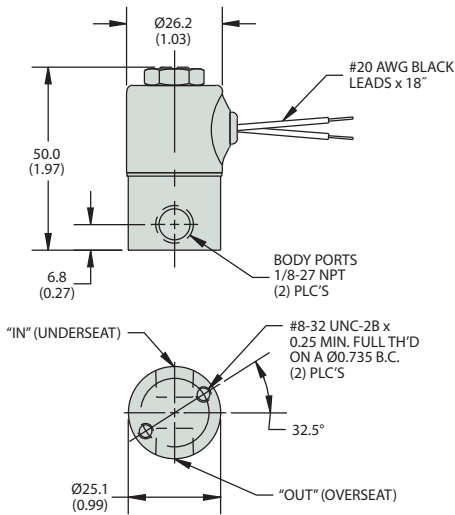
Typical Applications

- Analytical Instruments
- Clinical Diagnostic Analyzers
- Bio-Instrumentation

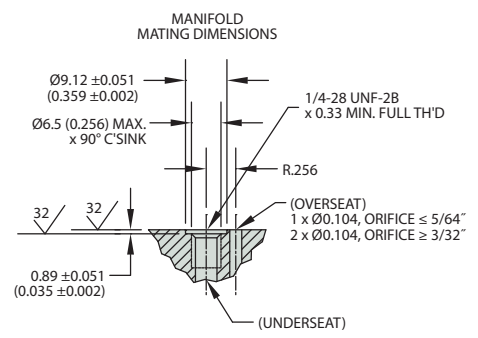
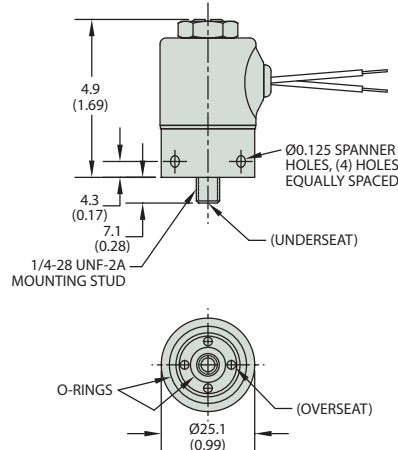


Dimensions

Threaded Port Body

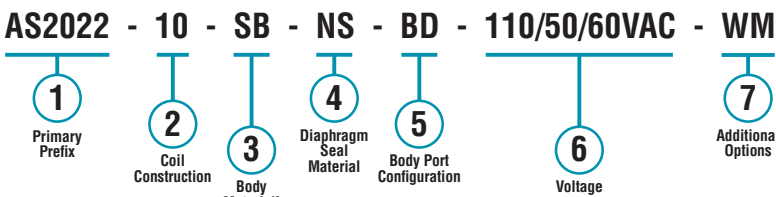


Manifold Mount Body



How To Order

Use the **Bold** characters from the choices listed on the following page to construct a product code.



Example:

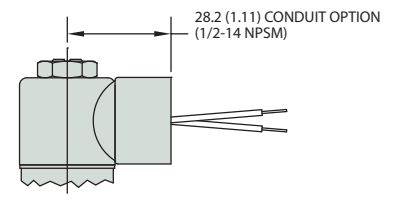
AS2022-10-SB-NS-BD-110/50/60VAC-WM

2-Way N.C. (12.70mm (1/2") conduit housing) solenoid valve, with externally rectified coil (lead-wires only), 304 stainless steel body, Nitrile (NSF/FDA) diaphragm seal, #10-32 female straight thread, operating at 110/50/60 Volt AC with rectified coil and mounting bracket.

Notes

1. After the Primary Prefix, any "Code" may be blank when standard (blank) selections are specified.
2. The Body Material option code, when specified, supercedes the standard body material indicated by the Primary Prefix.

Alternate 1/2" Conduit Housing Available on all body configurations



Materials

Body	303 S.S.
Diaphragm Seal	Viton®

Part Prefix Table ①

Body Material	Orifice		MOPD		Max Back Pressure		K _v	C _v	① Primary Prefix	
	Body		bar	psig	bar	psig			Body	Grommet Housing
	mm	inches								
303 Stainless Steel ¹	0.79	1/32	10	150	0.7	10	0.017	0.020	AS2011	AS2021
	1.19	3/64	7.6	110	0.7	10	0.030	0.035	AS2012	AS2022
	1.59	1/16	6.2	90	0.7	10	0.055	0.065	AS2013	AS2023
	1.98	5/64	4.8	70	0.7	10	0.077	0.090	AS2014	AS2024
	2.38	3/32	3.1	45	0.3	10	0.132	0.155	AS2015	AS2025
	3.18	1/8	1.0	15	0.3	5	0.205	0.240	AS2016	AS2026
	3.97	5/32	0.3	5	0.3	5	0.256	0.300	AS2017	AS2027

* Other body orifice sizes may be available, consult factory.

② Coil Construction

(blank) = Class 130°C (B), tape-wrapped, lead-wires
– 45.7cm (18") long*

W__ = Lead-wires, non-standard length (specify in centimeters)

10 = Externally rectified (AC voltage and lead-wires only)

1 = Class 130°C (B), encapsulated, lead-wires

4 = Class 130°C (B), encapsulated, 4.76mm (3/16")
spade terminals – 6.35mm (1/4") spade optional

HC2 = Class 130°C (B), encapsulated coil, 9.4mm DIN
(EN175301-803 Style C Industrial 2+1 poles)

2M = Class 155°C (F), over-molded, lead-wires

5M = Class 155°C (F), over-molded, 6.35mm (1/4")
spade terminals

11 = Class 180°C (H), tape-wrapped, lead-wires

3 = Class 180°C (H), encapsulated, lead-wires

3M = Class 180°C (H), over-molded, lead-wires

6M = Class 180°C (H), over-molded, 6.35mm (1/4")
spade terminals

③ Body Material (Replaces Standard 303 SS)

BB = Brass

SB = 304 Stainless Steel

SB5 = 316 Stainless Steel

④ Diaphragm Seal Material

(blank) = Viton® diaphragm*

E = EPR diaphragm

NS = Nitrile (NSF/FDA) diaphragm

PF = Perfluoroelastomer diaphragm

⑤ Body Port Configuration

(blank) = 1/8-27 NPT female thread*

LB = 1/4-18 NPT female thread

BD = #10-32 female straight thread

– max. orifice = 3.18mm (1/8")

LT = 1/8-28 BSPT female thread with M4 x 0.7 mounting threads

LU = 1/4-19 BSPT female thread with #8-32 mounting threads

MM = Manifold mount (1/4-28 UNF-2A mounting stud)²

MM3 = Manifold mount (5/16-24 UNF-2A mounting stud)²

OB = Omit body (operator style)

BI = Bottom over-seat port, female thread

– max. orifice = 3.18mm (1/8")

BIM = Bottom over-seat port, 1/8-27 NPT male thread

– max. orifice = 1.98mm (5/64"), brass body only

BO = Bottom under-seat port, female thread

BOM = Bottom under-seat port, 1/8-27 NPT male thread

– max. orifice = 3.18mm (1/8"), brass body only

RL = 90° porting - left hand

RR = 90° porting - right hand

⑥ Voltage

___ **VDC** = DC (specify voltage)

___ **VAC** = AC Rectified only (specify voltage)

⑦ Additional Options

Y = Yoke

WM = Mounting bracket

OC = Cleaned for oxygen use

* Standard selection; will be used unless otherwise specified.
Standard selections are not referenced in final part number.

Notes

- Use Prefixes from these rows if you want to use any of the other Body Materials listed under selection ③. Simply add the respective material code in the 3rd part number position (See Example).
- Teflon® o-ring not suitable for manifold mount.